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Title of the Invention: Manufacturing method of papers containing threads using cylinder paper machine

Claim 1:

A manufacturing method of papers containing threads using a cylinder paper machine equipped with at least two cylinder vats, wherein threads are transferred to and combined with a blanket together with paper materials by being provided along a first or second wire cylinder and thereafter processed through a press roll machine and a dryer.

Constitution:

In the present invention, threads 5 are provided in the second cylinder vat 1b and the threads 5 are transferred to and combined with the blanket 4 together with paper materials B in Fig. 1.

When one thread 5_1 is supplied between the right end of a second cylinder vat 1b and a wire cylinder 2b via a guide 7, the thread 5_1 forms a paper layer D_2 on a wire cloth 2c together with paper materials B due to differences in the water level inside and outside the wire cylinder 2b. The thread 5_1 is then combined with a paper layer D_1 from a first wire cylinder 2a by the blanket 4 and transferred onto the blanket 4. When a second thread 5_2 is supplied between the first thread 5_1 and the wire cylinder 2b and an end of the second thread 5_2 is attached by pressure to the wire cylinder 2b by the first thread 5_1 , the second thread 5_2 is supplied in parallel to the first thread 5_1 as shown in Fig. 3. A third thread 5_3 is supplied between the second thread 5_2 and wire cylinder 2b and by sequentially supplying threads in a similar way, the threads 5 with a predetermined number of threads are supplied.

The threads 5 supplied as above are transferred onto the blanket 4 integrally with paper layers D_1 and D_2 by the first and second wire cylinders 2a and 2b.

A paper layer D, which is composed of D_1 and D_2 and peeled off from the blanket 4 by a press roll machine 9, is wound by a winder 12 after being processed with a dryer 11 to manufacture papers containing threads.